

JP 7-173089

AN 1995:804784 CAPLUS

DN 123:315749

TI Preparation of high-purity tetrakisphenolethanes

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PA Asahi Organic Chem Ind, Japan

SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C07C039-15

ICS B01J027-02; B01J027-06; B01J031-02; B01J031-04; C07C037-20

ICA C07B061-00

CC 37-6 (Plastics Manufacture and Processing)

Section cross-reference(s): 74

FAN. CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07173089	A2	19950711	JP 1991-122888	19910426
JP 2897850	B2	19990531		

✓ PI

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JP 1991-122888 19910426

AB

The title compds., useful as materials for thermosetting resins, curing agents for epoxy resins, ballasts of photosensitive agent for photoresists, modifiers for phenolic resins, antioxidants, etc., are prepd. in high purity by condensation of phenols with glyoxal in the presence of acidic catalysts, concn. of the reaction mixt. to remove volatile components, and then treatment of the residual matter with org. solvents capable of dissolving low-mol.-wt. compds. and higher condensates

and acting as poor solvents to the title compds. A mixt. of PhOH, glyoxal, and p-MeC₆H₄SO₃H was heated under reflux over 1 h and further stirred at the reflux temp. for 6 h. Subsequently the reaction mixt. was vacuum-concd. and the solid residue was ground and treated with acetone under stirring to give 11.3% (4-HOC₆H₄)₂CHCH(C₆H₄OH-4)₂ with purity

94.4%.

ST hydroxyphenylethane prepn purifn solvent acetone; THF purifn solvent hydroxyphenylethane prepn; ethane tetrakisphenol prepn; phenol

condensation glyoxal

IT

1,1,2,2-Tetrakis(4-hydroxyphenyl)ethane 108261-54-7P

RL: IMF (Industrial manufacture); PUR (Purification or recovery); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(prepn. of tetrakisphenolethanes in high purity by acid-catalyzed condensation of phenols with glyoxal, concn., and treatment with org. solvents)

IT

67-64-1, Acetone, uses 78-93-3, Ethyl methyl ketone, uses 108-10-1, Isobutyl methyl ketone 109-99-9, Tetrahydrofuran, uses

RL: NUU (Nonbiological use, unclassified); USES (Uses)

(prepn. of tetrakisphenolethanes in high purity by acid-catalyzed condensation of phenols with glyoxal, concn., and treatment with org. solvents)

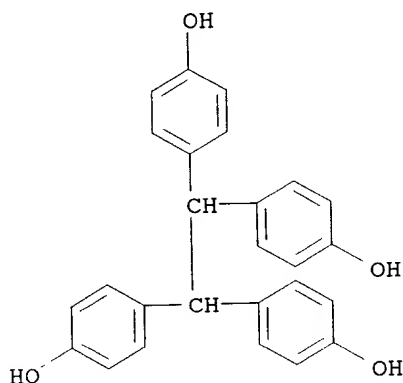
IT

95-48-7, o-Cresol, reactions 108-95-2, Phenol, reactions 108-95-2D, Phenol, derivs.

RL: RCT (Reactant)

(prepn. of tetrakisphenolethanes in high purity by acid-catalyzed condensation of phenols with glyoxal, concn., and treatment with org. solvents)

RN 7727-33-5 REGISTRY
 CN Phenol, 4,4',4'',4'''-(1,2-ethanediylidene)tetrakis- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Phenol, 4,4',4'',4'''-ethanediylidenetetra- (6CI)
 OTHER NAMES:
 CN 1,1,2,2-Tetrakis(4-hydroxyphenyl)ethane
 CN 1,1,2,2-Tetrakis(p-hydroxyphenyl)ethane
 CN TEP-DF
 MF C26 H22 O4
 CI COM
 LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, IFICDB, IFIUDB, TOXLIT, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, NDSL**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



59 REFERENCES IN FILE CA (1967 TO DATE)
 8 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 59 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)